

The diagram illustrates a system architecture and its associated metrics. It is divided into two main sections by a dashed line, with various components and agents listed at the bottom.

Top Section (Service Level Reports and Service Levels):

- Service Level Reports (17)** is composed of **Service Levels (16)**.
- Service Level Reports (17)** is composed of **Service Parameters (15)**.
- Service Levels (16)** are marked by **Service Parameters (15)**.
- Service Parameters (15)** are mapped into **Component Parameters (19)**.

Bottom Section (Components and Agents):

- Business Processes (11)** are composed of **Services (12)**.
- Services (12)** are measured by **Service Parameters (15)**.
- Services (12)** are composed of **Components (18)**.
- Components (18)** are monitored/controlled by **Component Parameters (19)**.
- Components (18)** are monitored/controlled by **An Agent (20)**.
- Components (18)** are a kind of **Transmission Device (27)**, **Transmission Line (28)**, **Computer System (29)**, and **Application (30)**.
- An Agent (20)** is a kind of **Device Agent (21)**, **Traffic Agent (22)**, **System Agent (23)**, **Application Agent (24)**, **Special-Purpose Agent (25)**, and **Multicomponent Agent (26)**.

Legend:

- 10: Service Level Reports
- 11: Business Processes
- 12: Services
- 13: Components
- 14: Service Level Reports
- 15: Service Parameters
- 16: Service Levels
- 17: Service Level Reports
- 18: Components
- 19: Component Parameters
- 20: An Agent
- 21: Device Agent
- 22: Traffic Agent
- 23: System Agent
- 24: Application Agent
- 25: Special-Purpose Agent
- 26: Multicomponent Agent
- 27: Transmission Device
- 28: Transmission Line
- 29: Computer System
- 30: Application
- 31: Service Level Reports
- 32: Service Levels
- 33: Service Parameters
- 34: Component Parameters
- 35: An Agent
- 36: Device Agent
- 37: Traffic Agent
- 38: System Agent
- 39: Application Agent
- 40: Special-Purpose Agent
- 41: Multicomponent Agent
- 42: Transmission Device
- 43: Transmission Line
- 44: Computer System
- 45: Application

Fig. 1

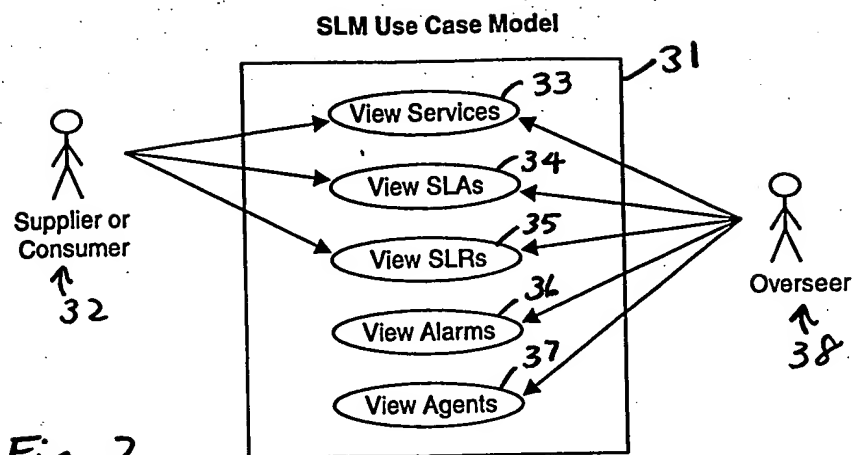


Fig. 2

THE **NEW** **YORK** **PUBLIC** **LIBRARY**

```

graph TD
    subgraph AlarmTypes [40]
        DA[Device Alarm]
        LA[Line Alarm]
        SA[System Alarm]
        AA[Application Alarm]
        UA[User Alarm]
        SA2[Service Alarm]
    end

    EC[Event Correlation 45] -- results in --> AO[Alarm Object 46]
    AO -- handled by --> AN[Alarm Notifier 54]
    AN -- communicates with --> NM[Notifier Medium 53]
    NM -- is a kind of --> subgraph NotificationMethods [49]
        AGUI[Alarm GUI 47]
        Siren[Siren 50]
        Pager[Pager 48]
        Email[E-mail 51]
        TT[Trouble Ticket 49]
        Phone[Phone 52]
    end
    AO -- is a kind of --> AO

    DA -- is a kind of --> AO
    LA -- is a kind of --> AO
    SA -- is a kind of --> AO
    AA -- is a kind of --> AO
    UA -- is a kind of --> AO
    SA2 -- is a kind of --> AO

```

Fig. 3

Figure 4 is a schematic diagram of a system architecture. The diagram illustrates the interaction between external entities and internal system components.

External Entities:

- 38 Overseer:** Represented by a stick figure, it interacts with the system via interface objects 62 and 58.
- 32 Supplier or Consumer:** Represented by a stick figure, it interacts with the system via interface object 58.

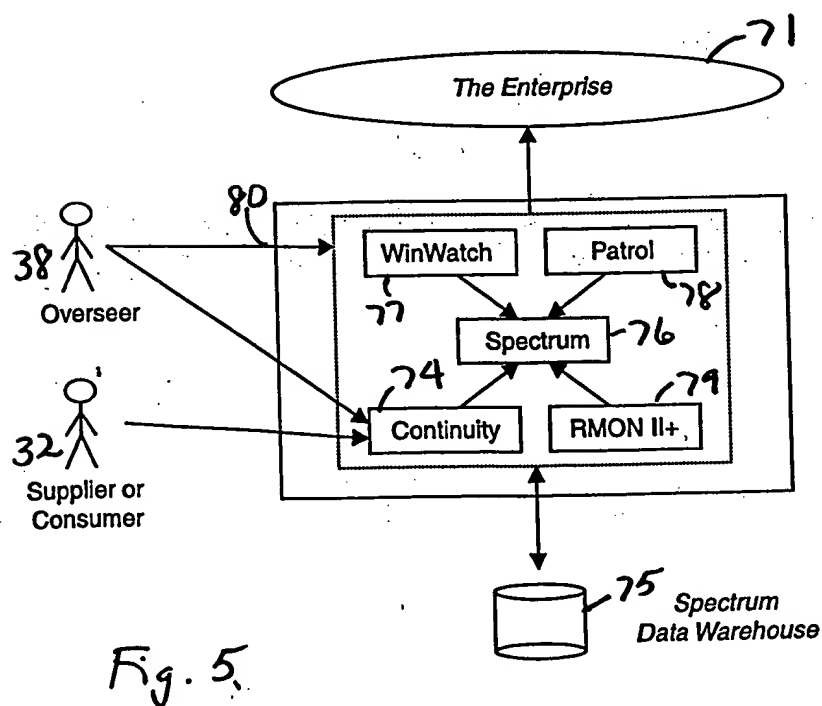
Internal System Components:

- 71 The Enterprise:** A large container representing the core system.
- Monitoring Agents 63-66:** Represented by circles with dots, they are connected to the Enterprise.
- Agent Buffers 69-70:** Represented by circles, they receive data from the Monitoring Agents.
- Database Interface 60:** A circle that receives data from the Agent Buffers and connects to the SLM Database.
- 61 SLM Database:** A cylinder representing the data storage.

Legend:

- Interface object: Represented by a horizontal line with a circle.
- Entity object: Represented by a circle.
- Control object: Represented by a circle with a dot.

Fig. 4



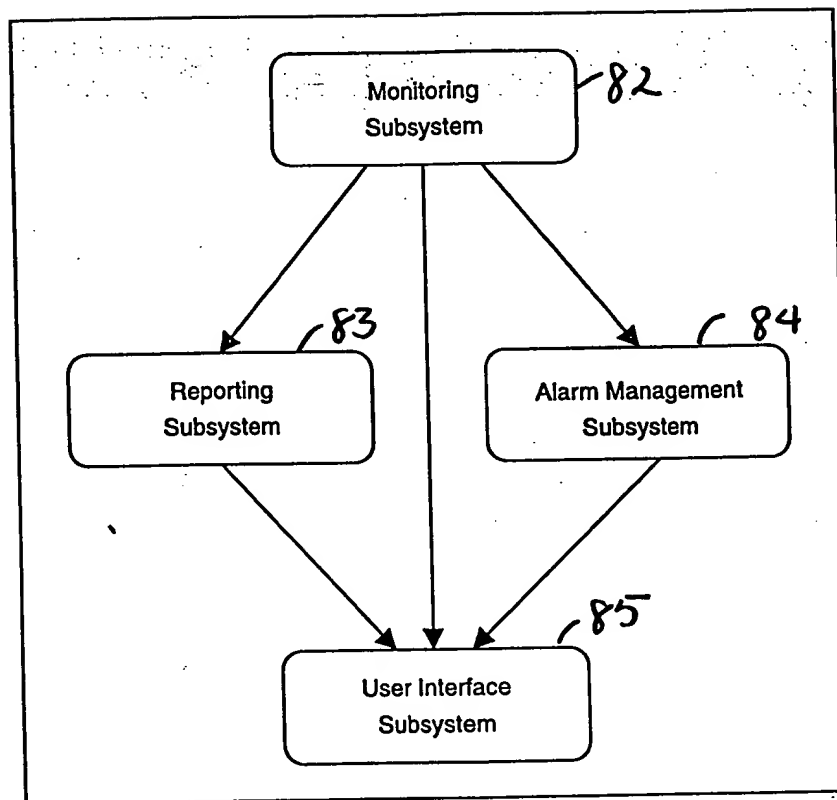


Fig. 6

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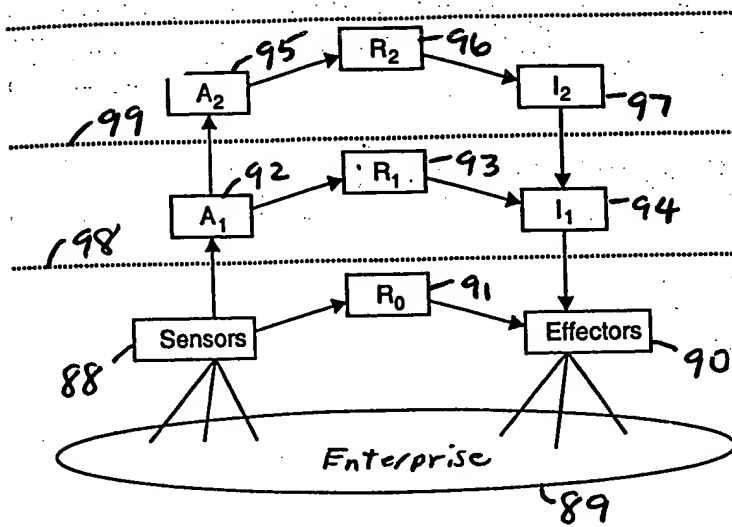


Fig. 7

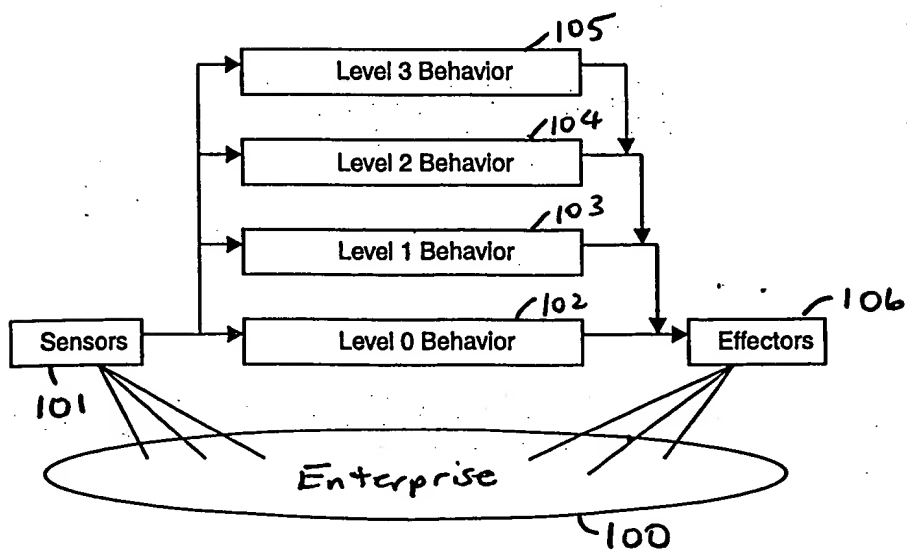


Fig. 8

Level 2 Abstraction,
Reasoning, Instruction

Level 1 Abstraction,
Reasoning, Instruction

Level 0 Abstraction,
Reasoning,
Instruction

Monitoring

Auto
Control

Human
Control

Fig. 9

The Enterprise 114

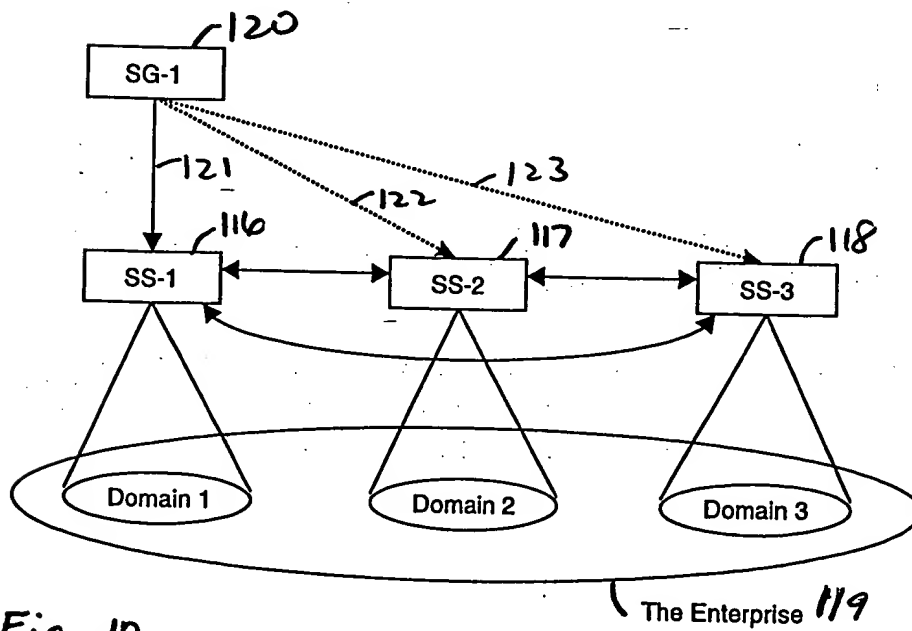
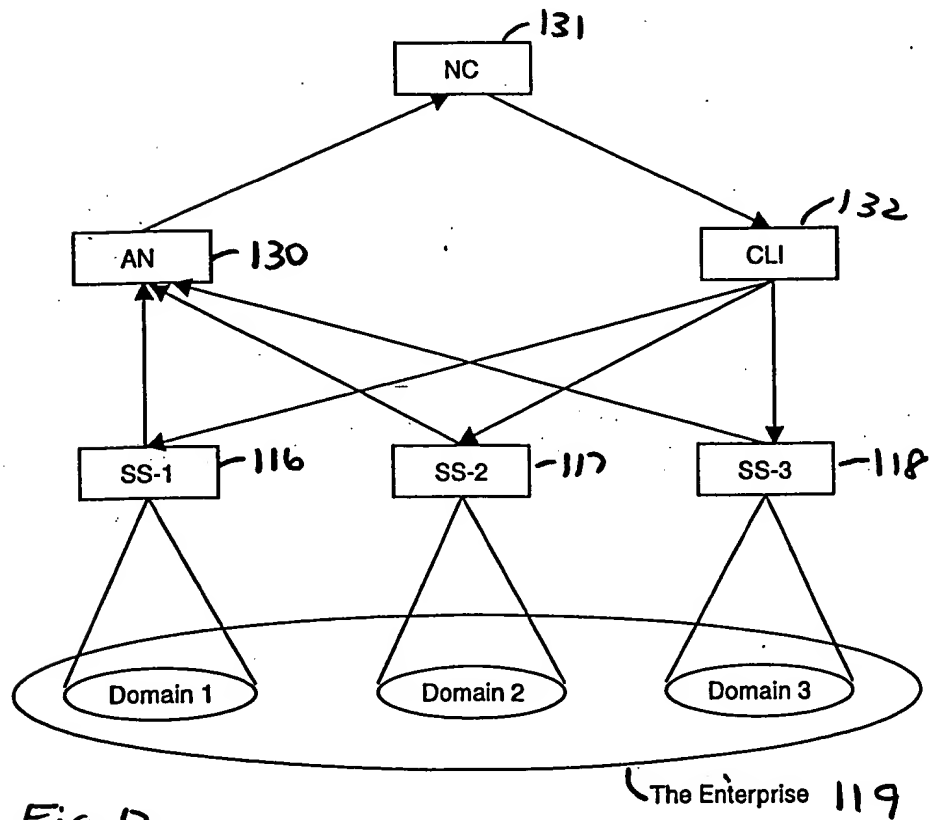
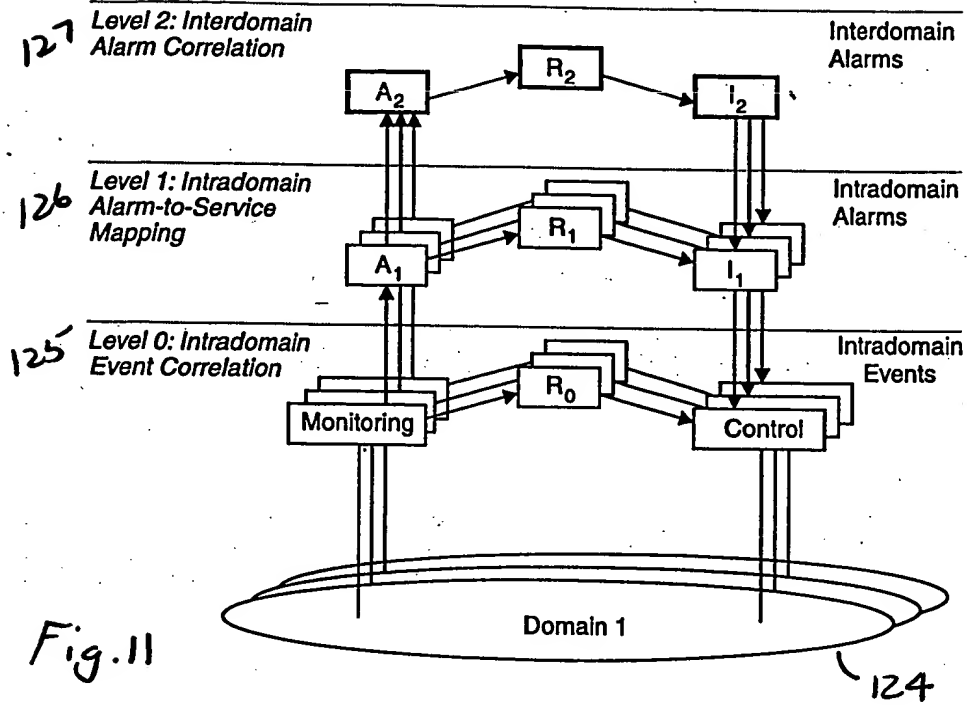


Fig. 10

The Enterprise 119



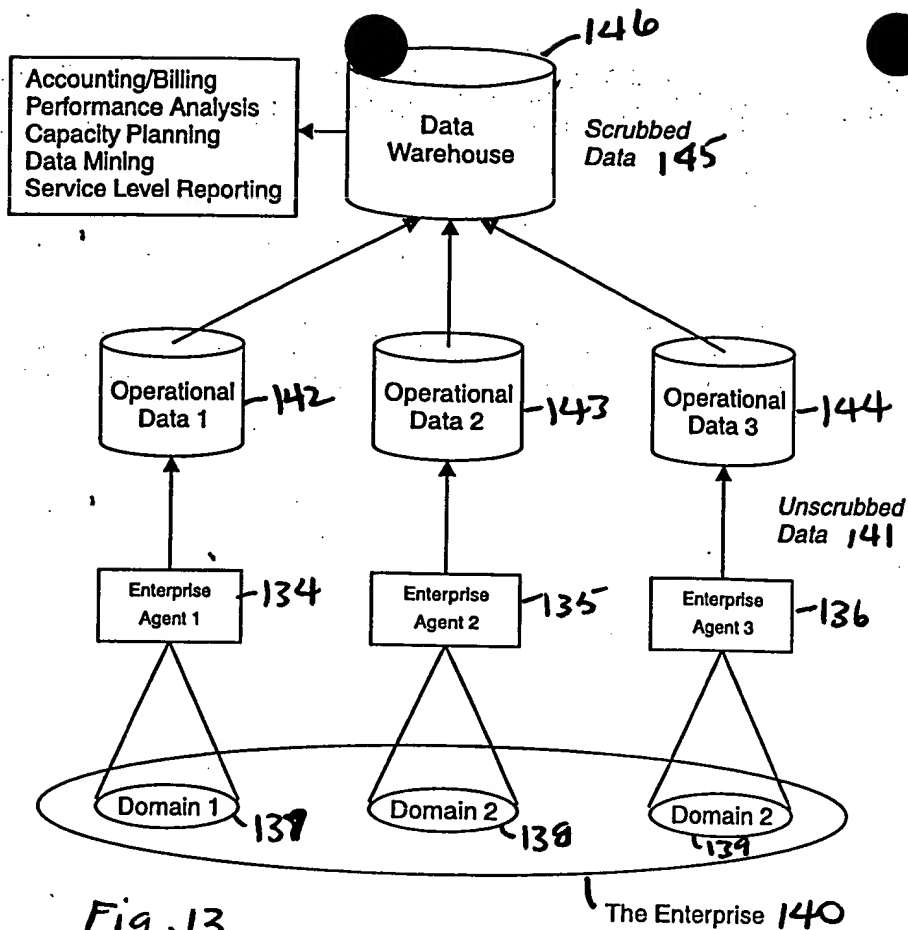


Fig. 13

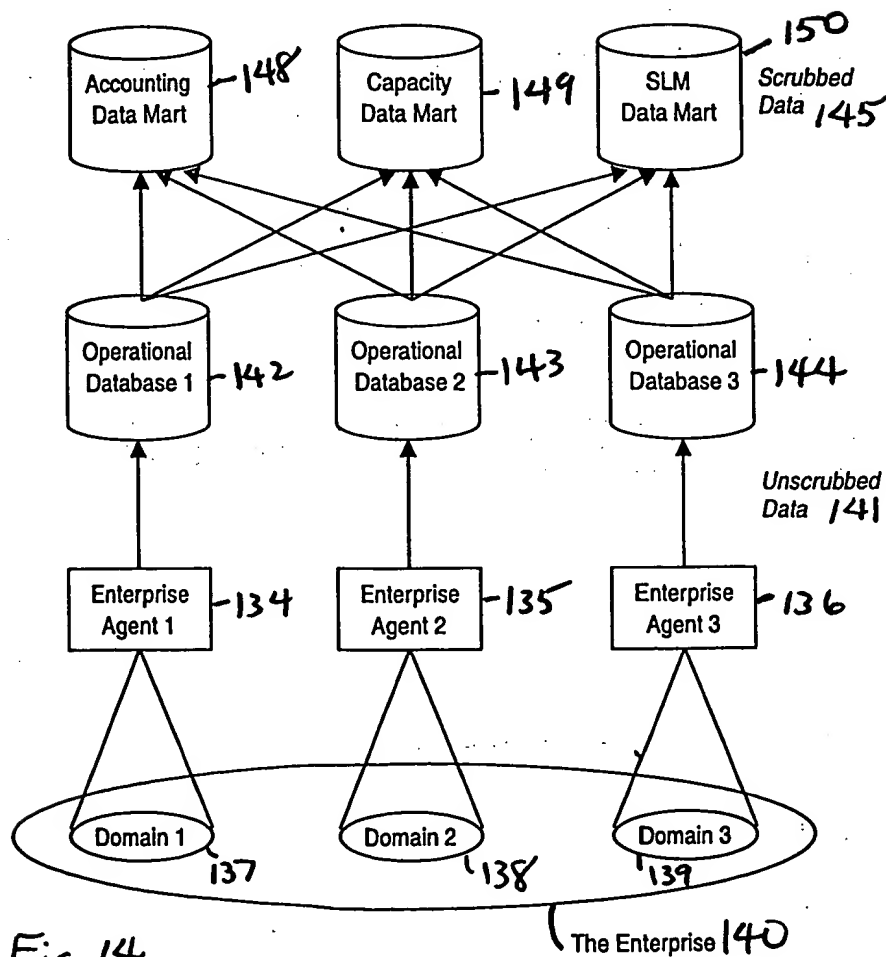


Fig. 14

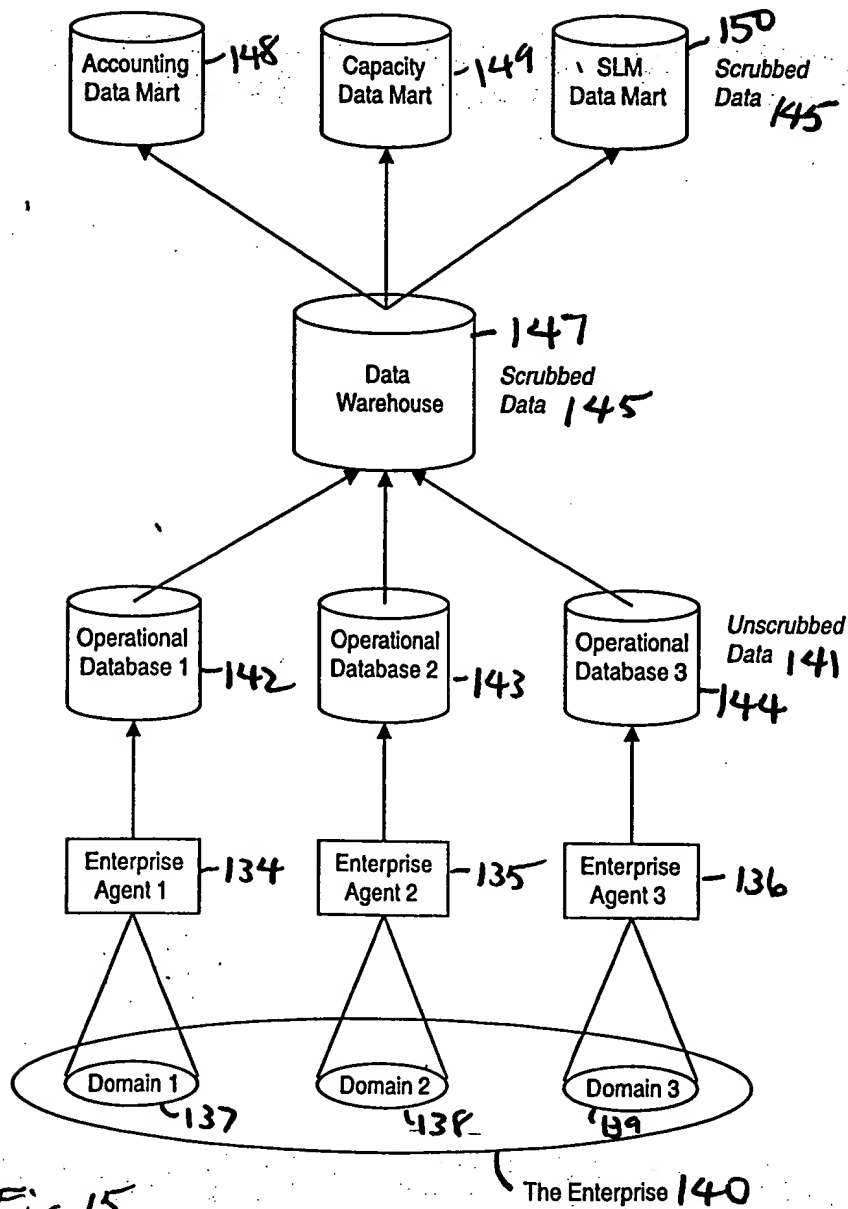


Fig. 15

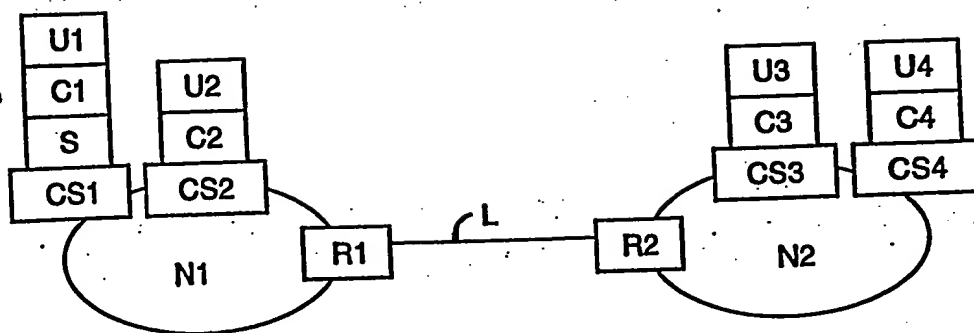


Figure 5.1, Fig. 16

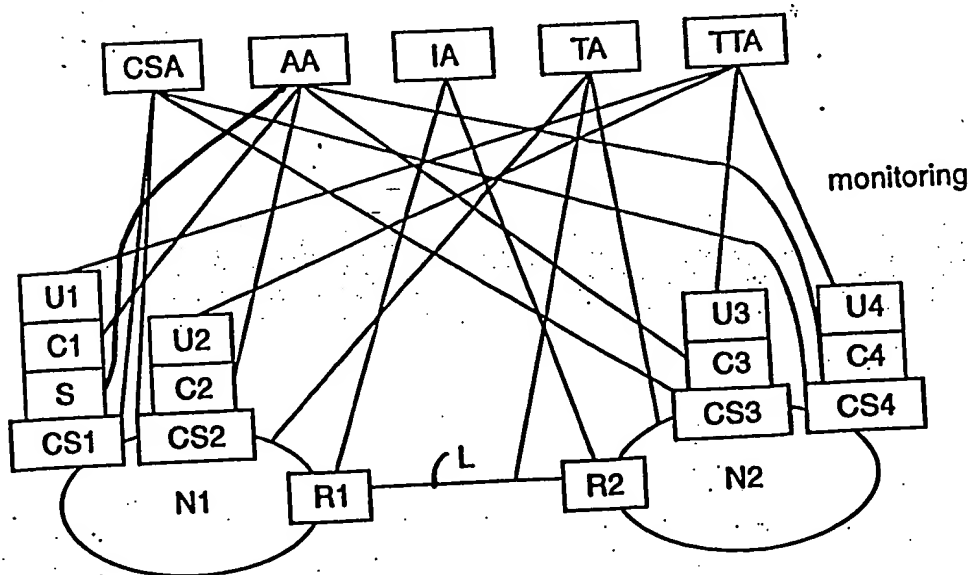


Figure 5.2 Fig. 17

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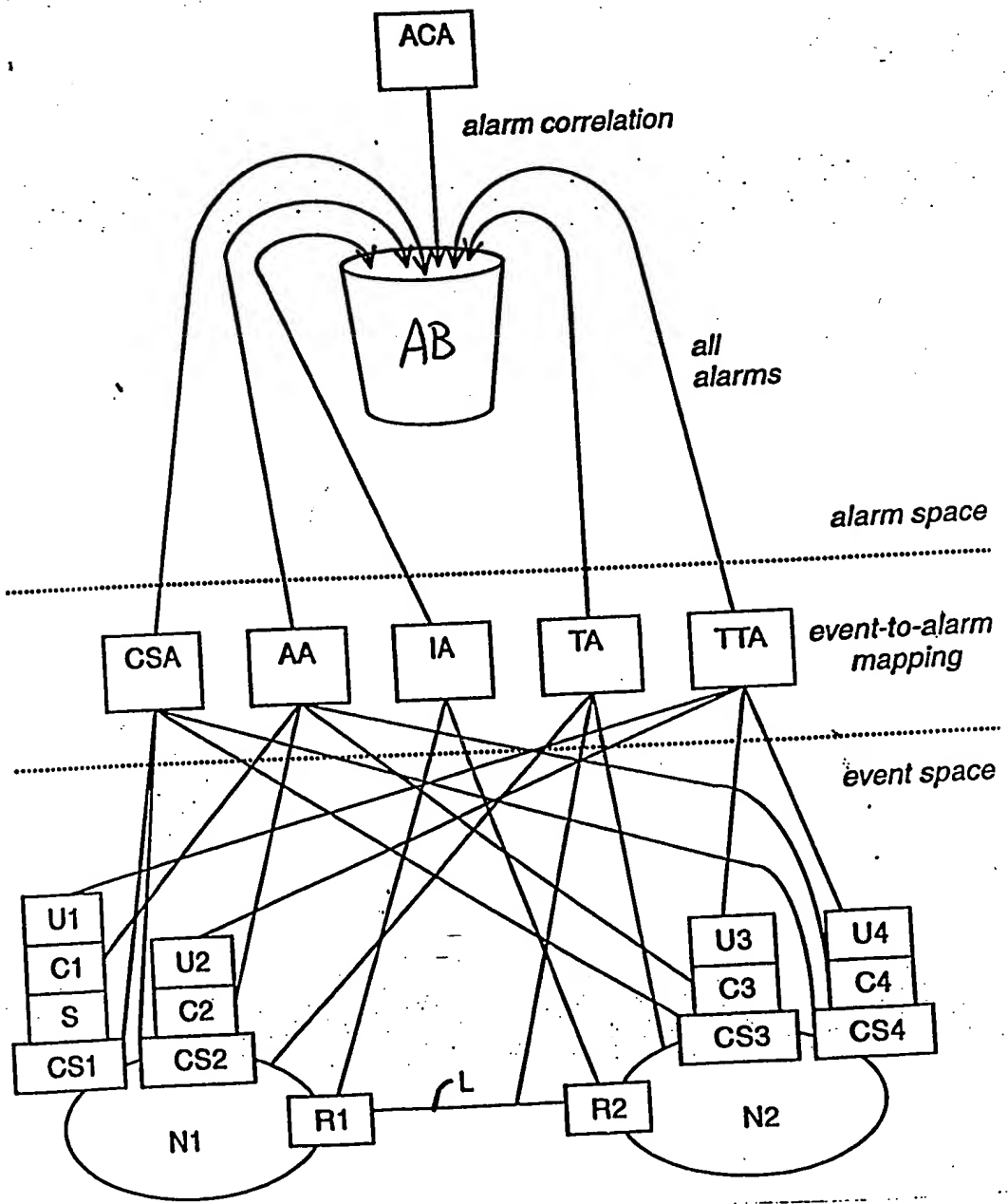


Figure 5.5

Fig. 18

Fig. 19.

Detect events in ~160
the network

↓
For each aspect of network ~161
operation, map event(s) to
alarm(s)

↓
Output alarms to ~162
alarm bucket

↓
Correlate/Evaluate alarms to ~163
determine network operation
status

↓
Report Network operation ~164
status

↓
Identify corrective actions ~165
necessary for desired operation of
network

↓
Implement corrective ~166
actions or report identified
corrective actions

Detect events for a specific aspect of network operation

Map detected events ~ 168
to an alarm or alarms

↓
Output alarm or
alarms

1. The first group of people who are interested in the study of the history of the world are the people who are interested in the history of the world.

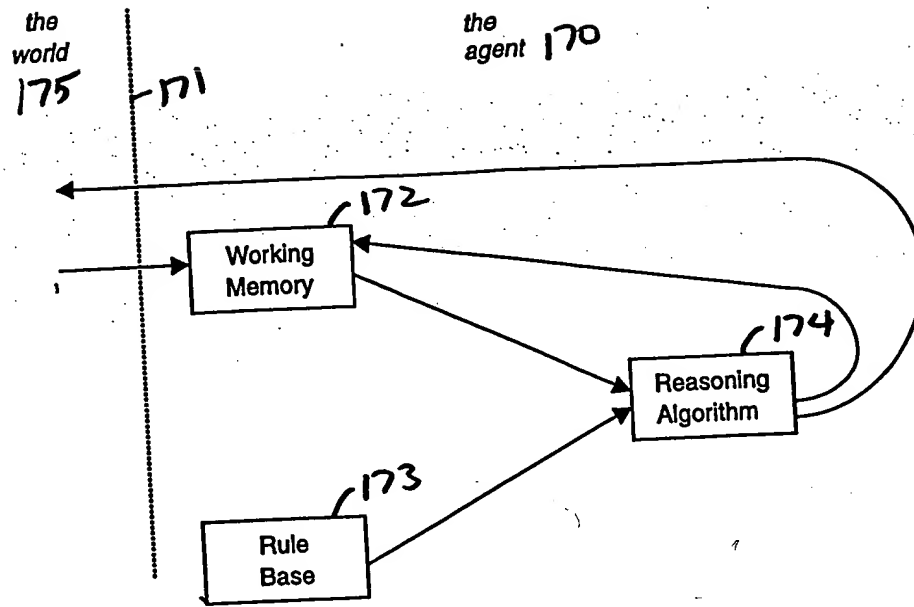


Fig. 21

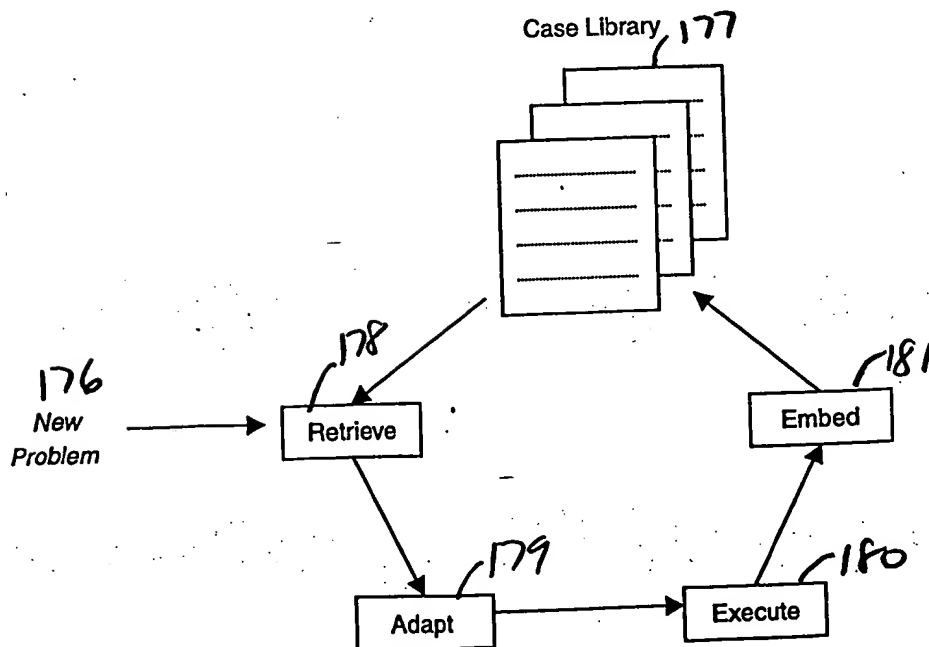


Fig. 22

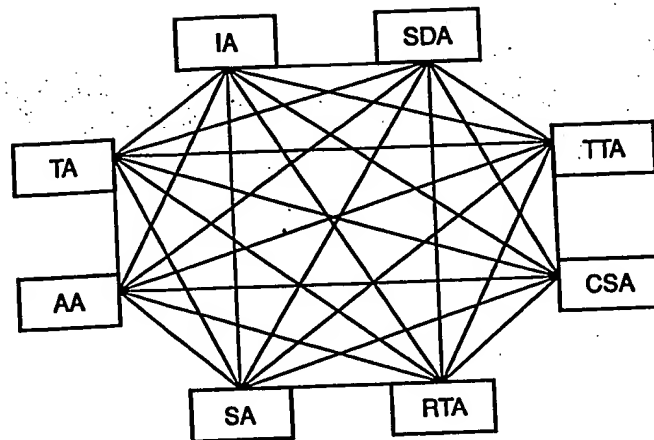


Fig. 23

Friday January 5 2001 -191			
	Service 1	Service 2	Service 3
Seattle			
Bldg 1	Up	Up	Down, up at 12 PM
Bldg 2	Down 8-10 PM	Down 8-10 PM	Down 8-10PM
Bldg 3	Up (Slow)	Up	Up
Sydney			
Bldg 1	Up	Up	Down, up ?
Bldg 2	Up	Up (slow)	Up
.			
.			
.			

load	state
0	alarm
10	notice
20	ok
30	notice
40	alarm

Fig. 25

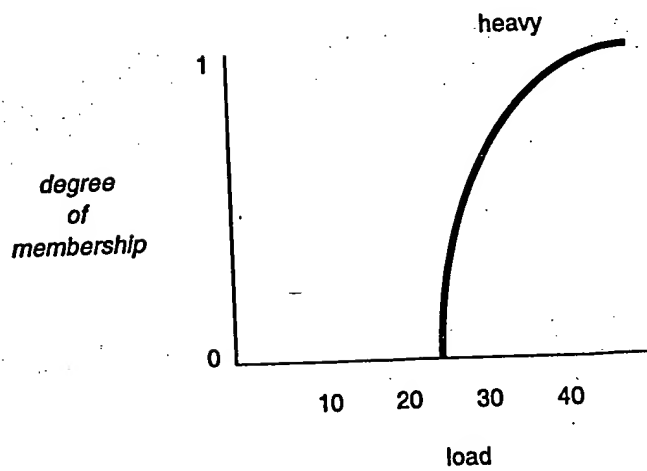


Fig. 26

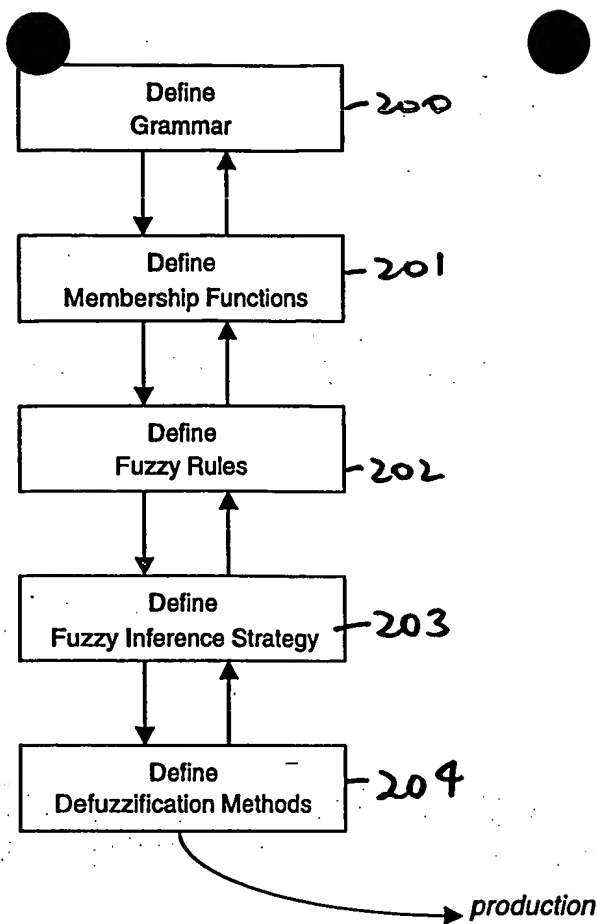


Fig. 27

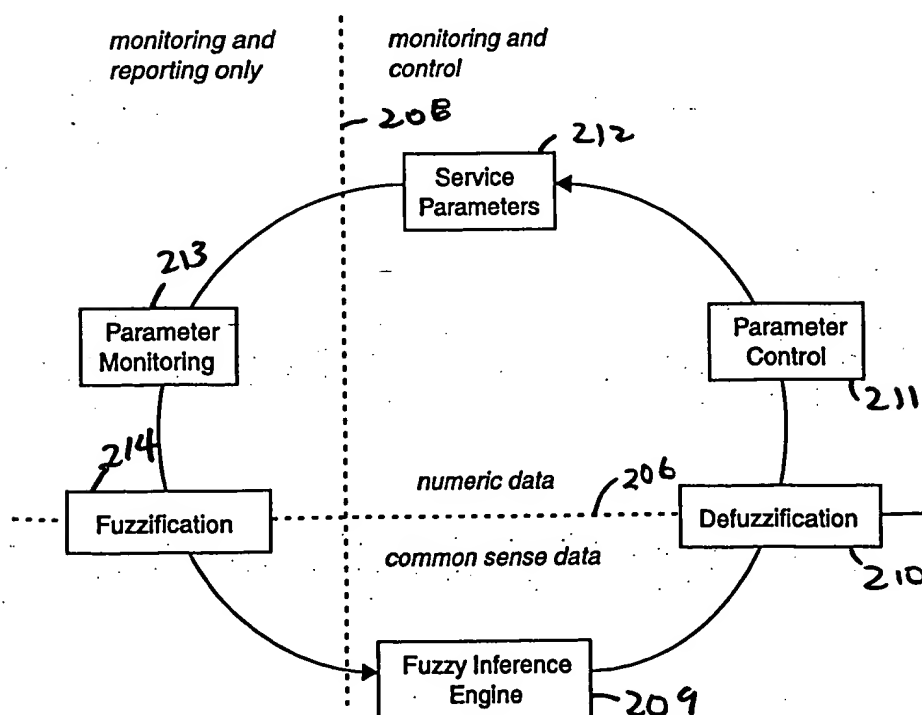


Fig. 28

possible influences on SP ²²⁵

²²⁴ target

	P1	P2	P3	P4	P5	...	PN	SP
t1	---	---	---	---	---	---	---	---
t2	---	---	---	---	---	---	---	---
t3	---	---	---	---	---	---	---	---
t4	---	---	---	---	---	---	---	---
t5	---	---	---	---	---	---	---	---
t6	---	---	---	---	---	---	---	---
.								
.								
.								

²²²

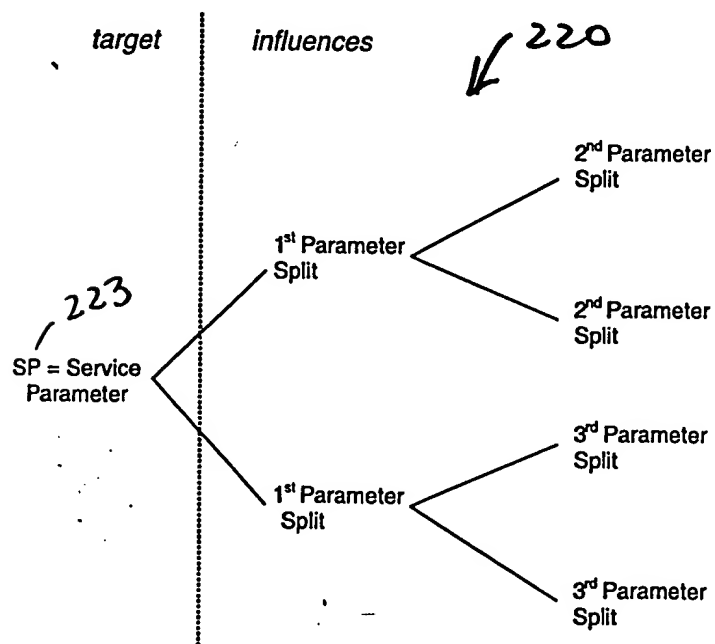


Fig. 29

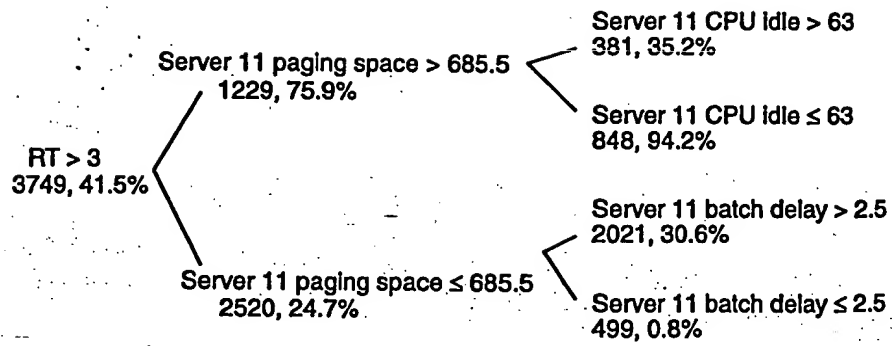


Fig. 30

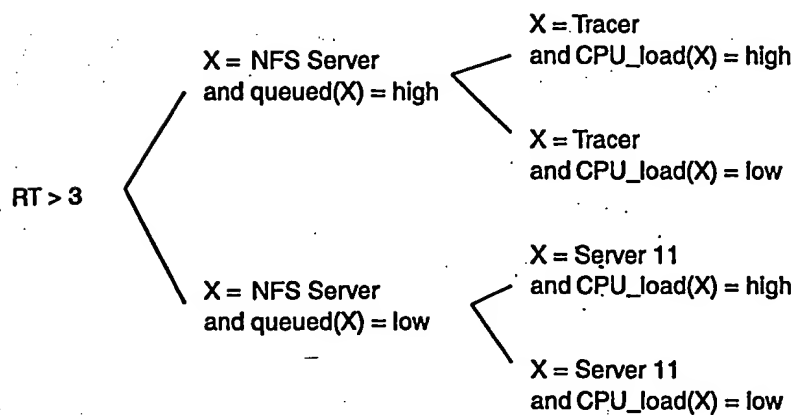


Fig. 31

230

Service Agreement with XYZ Server Farm						
Name						
Address						
Phone						
Email						
Policies						
Availability	___ (select 90 – 100 %)				\$___	
Response Time	___ (select 2 – 5 sec)				\$___	
Security	___ (select high- med-low)				\$___	
Integrity	___ (select high- med-low)				\$___	
					Total: \$___	
Go Back		(Month)			Go Forward	
Default: Availability ___ Response time ___ Security ___ Integrity___						
Send			Cancel			

Fig. 32

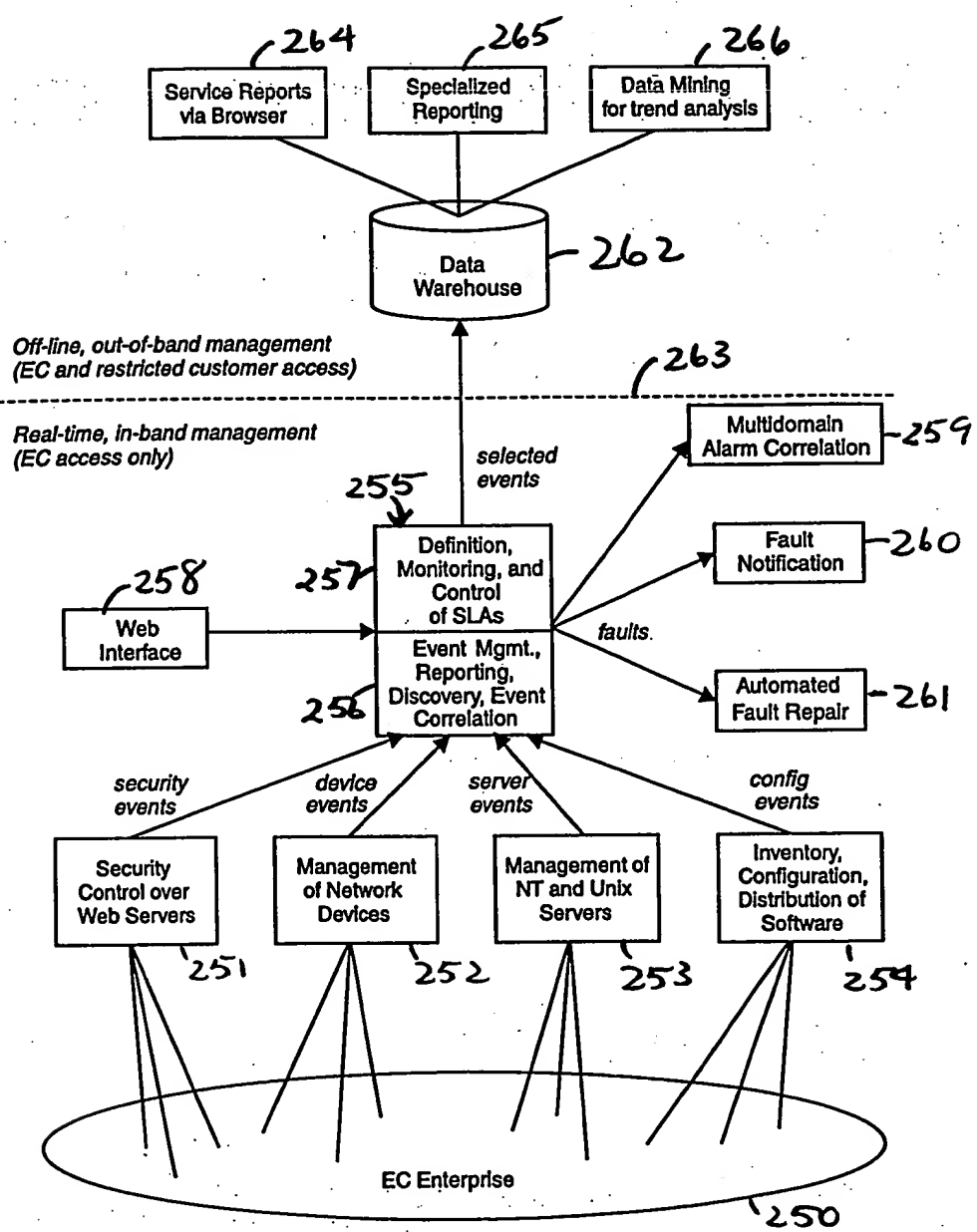


Fig. 33

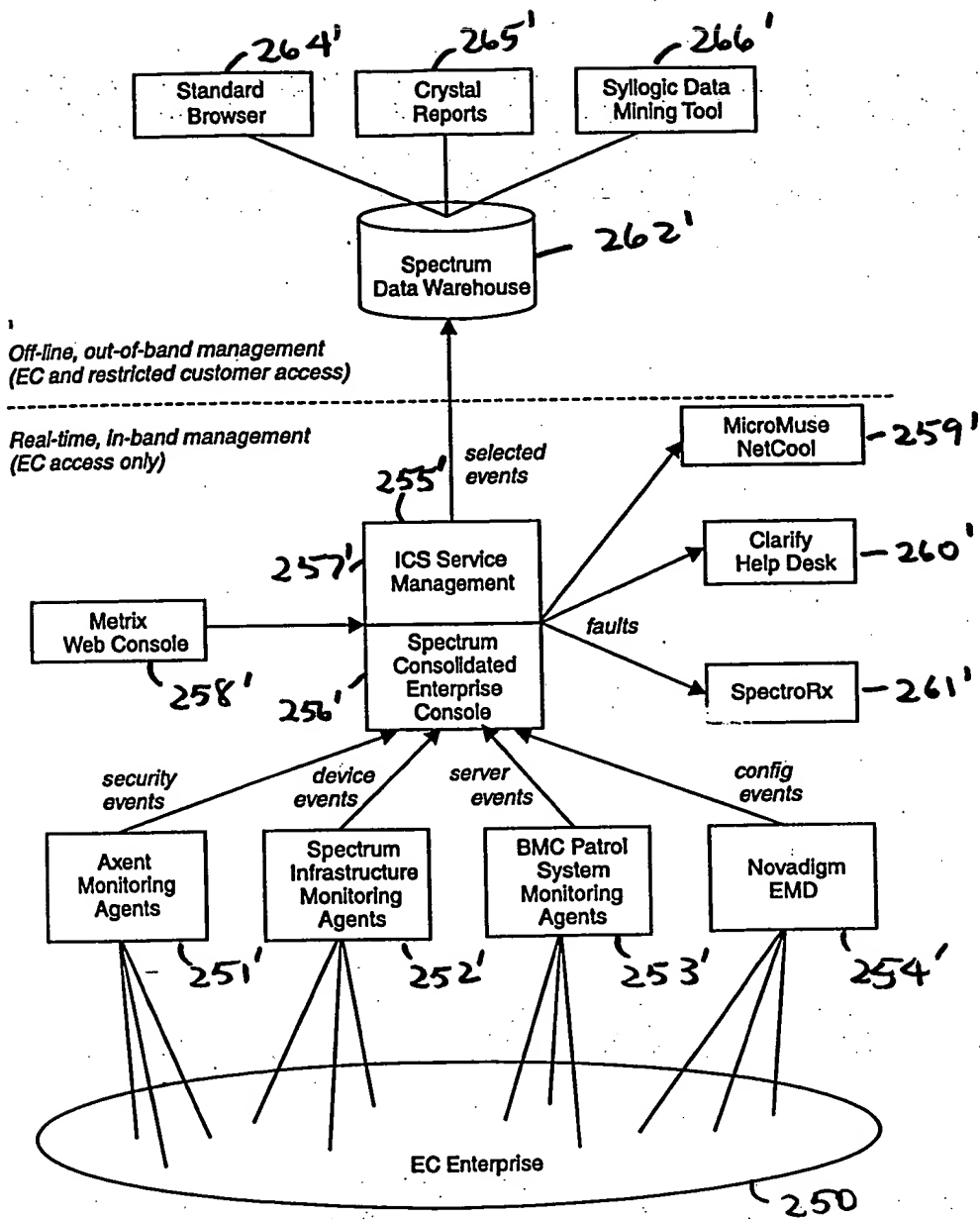


Fig. 34

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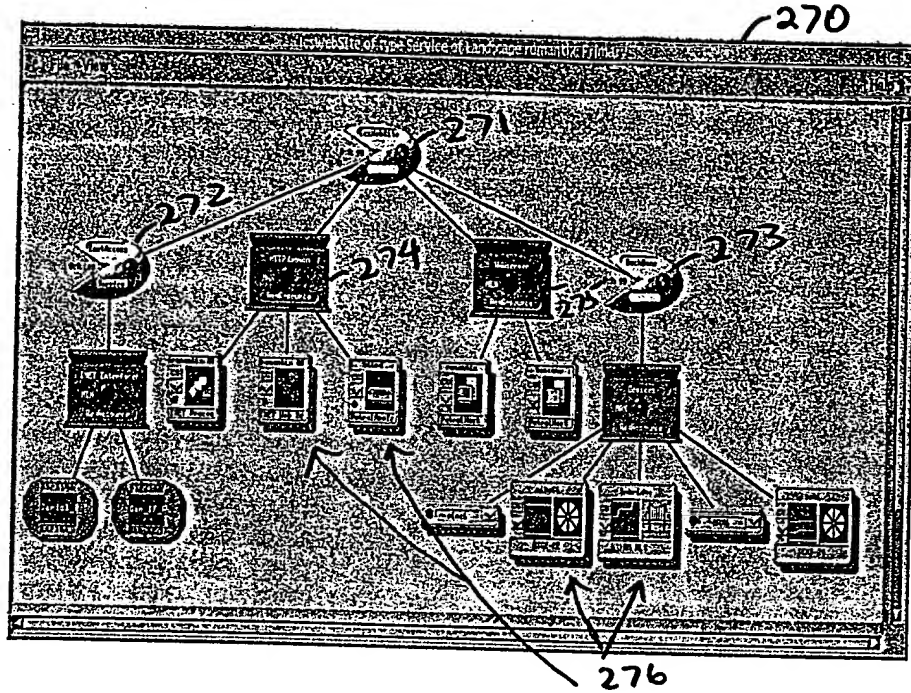


Fig. 35

280

281

282

283

Service Level Agreements

Monitor Definition

Day	Start Time	End Time	Downtime per Week
Monday	08:30	17:30	
Tuesday	08:30	17:30	
Wednesday	08:30	17:30	
Thursday	08:30	17:30	
Friday	08:30	16:00	
Saturday	08:30	17:30	
Sunday	08:30	17:30	
Holiday	08:30	17:30	

Monitor Name: Downtime per Week

Fixed Period: 1 Calendar Week

Rolling Period: 1 Minute

Create Monitor

Fig. 36

05578455 055000

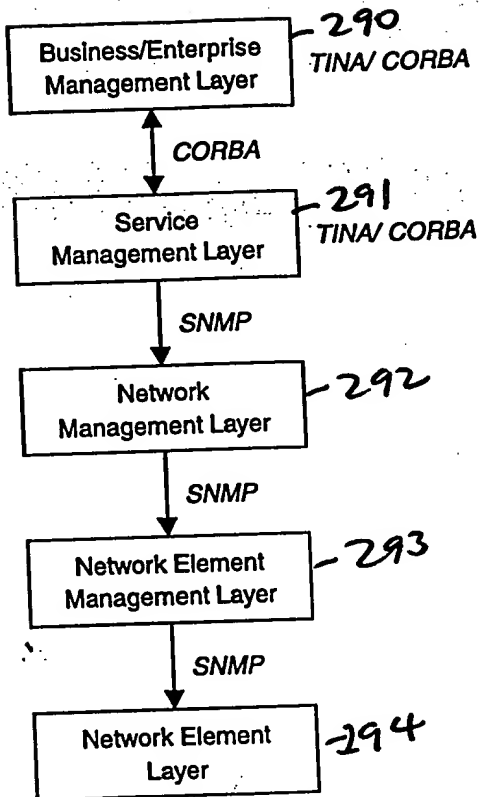


Fig. 37

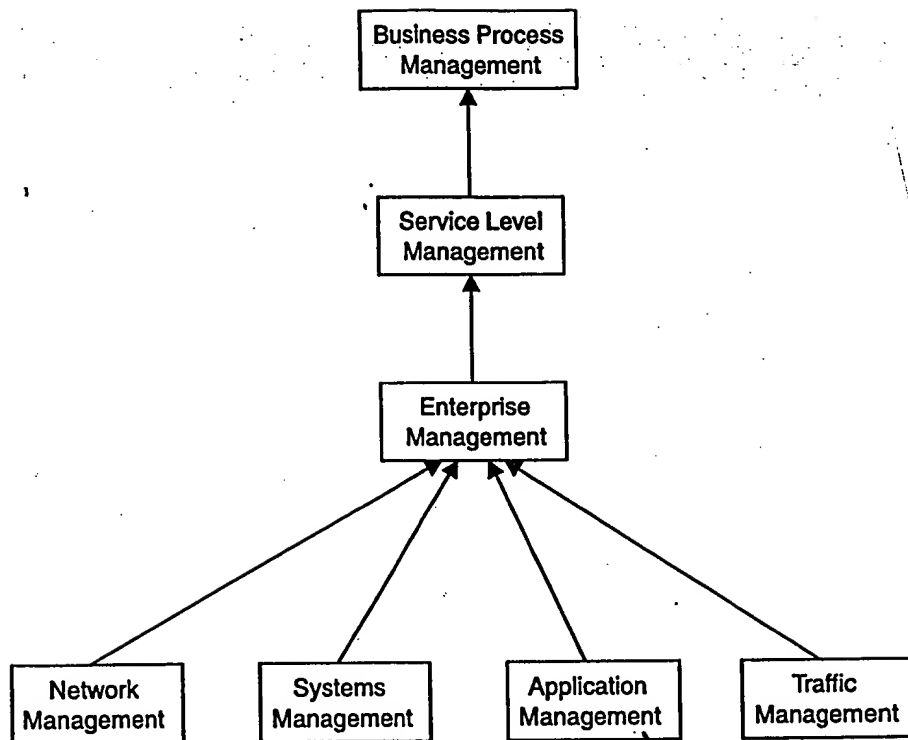


Fig. 38